



Generic Program Rigid Core Vinyl Plank Technical Data Sheet

No.	Description		Method	Standard	Result	Performance Rating
1	Packing Appearance		Internal	Pallets/Cartons/Labels/Inserts/Bar Codes match customer order in quality and quantity, with neat appearance.	Pass	Better
2	Product Appearance		Internal	Material must match customer order. No print film folding, no rough bevel, no bevel with white line, no film scratch or breakage, no color difference, no wear layer bubbles, no impurities, no stains, no dents, no scratches, no broken corners, no fish eyes, no trash, no holes, no hair/ foreign subject, no overhang or uneven backpad, etc. Laser print of date/PO# and crew# present.	Pass	Better
3	Dimensions	Length	ASTM F1700	± 0.40 mm	0.03mm	Best
		Width		± 0.10 mm	0.02mm	Best
4	Overall Thickness		ASTM F1700	± 0.10 mm	0.02mm	Best
5	Squareness	Length	ISO 24342	≤ 0.25 mm	0.03mm	Best
		Width		≤ 0.25 mm	0.02mm	Best
6	Straightness	Length	ISO 24342	≤ 0.25 mm	0.05mm	Best
		Width		≤ 0.25 mm	0.01mm	Best
7	Stitching Gap (mm)		EN13329	≤ 0.10 mm	0.02mm	Best
8	Height Difference		EN13329	≤ 0.10 mm	0.03mm	Best
9	Wear Layer Thickness		EN 429	± 0.02 mm	0.01mm	Best
10	Peel Strength of Adhesive Bonds		ASTM D903	≥ 5.5 Lbs/Inch	10.3Lbs/Inch	Best
11	Scratch Resistance		EN 16094B	> 2500g	4,000g	Best
12	Micro-Scratch Resistance (A & B)		EN 16094	MSR-B1 - B3	MSR-B2	Better
13	Coating Adhesion (Cross hatch)		EN 16094B	5B	5B	Best
14	Abrasion Resistance of Organic Coatings by the Taber Abraser		ASTM D4060	No pass-fail criteria	Abrasion Wheel H-18 Load Applied 1000 Grams Number Of Cycles:14000	Best
15	Determination of Locking Strength for Mechanically Assembled Panels		ISO 24334	≥ 2 KN/M	Long Side 5.6 KN/M Short Side 3.1 KN/M	Good
16	Determination of Dimensional Stability and Curling after Exposure to Heat (6h - 176F)		ISO 23999 ASTM F3261	Length mean $\leq 0.25\%$ Width mean $\leq 0.25\%$	Length mean =0.02% Width mean =0.04%	Best



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17	Wear Layer Abrasion Resistance	EN 13329 (S-42, 200 cycle change)	0.3mm wear layer IP \geq 1,800 cycles; 0.5mm wear layer IP \geq 4,000 cycles.	No abrasion through wear layer into print film upon cycle completion.	Better
18	Density	ASTM D2395	1.9-2.2g/cm ³	1.98g/cm ³	Good
19	Phthalates	CPSC-CH-C1001-09.4	GC-MS analysis each substance \leq 50ppm	< 1.0pppm	Best
20	Heavy Metal Content Analysis	ASTM F963	Antimony < 60 ppm, Arsenic < 25 ppm, Barium < 1000 ppm, Cadmium < 75 ppm, Chromium < 60 ppm, Lead < 90 ppm, Mercury < 60 ppm, and Selenium < 500 ppm	All < 0.25ppm	Best
21	Gloss Level (gu)	ASTM D523	\pm 2gu	< \pm 2gu	Good
22	Resistance to Chemicals	ASTM F925	0 - No change (---) 1 - Slight change 2 - Moderate change 3 - Severe change	0 No Change	Good
23	Determining Resistance of Synthetic Polymers to Fungi	ASTM G21	Rating 0: No Fungal Growth on Sample Rating 1: Trace of Growth (< 10% coverage) Rating 2: Light Growth (10-30% coverage) Rating 3: Medium Growth (30-60% coverage) Rating 4: Heavy Growth (60-100% coverage)	Rating 0, No Fungal Growth on Sample	Best
24	Smoke Density (Non-Flaming)	ASTM E662	\leq 450	291	Best
25	Smoke Density (Flaming)	ASTM E662	\leq 450	237	Best
26	Calculated Sound Transmission (STC)	ASTM E90-09 (2016) ASTM E413-16	No pass-fail criteria	52	Good
27	Impact Sound Reduction (IIC)	ASTM E492-09 ASTM E989-18	No pass-fail criteria	62	Good
28	Short-Term Indentation and Residual Indentation of Resilient Floor Covering	ASTM F1914 ASTM F3261	\leq 0.007 inch Surface Integrity: No puncture through wear layer/print film into rigid core.	0.002 inch No puncture through wear layer/print film into rigid core.	Best
29	Static Load Limit	ASTM F970	Max loading: 250psi Max residual indent: 0.005 inch	0.003 Inch @ 250psi	Good
30	Heat Stability of Resilient Flooring by Color change	ASTM F1514	< 8.0 Δ E	0.05-0.19 Δ E	Best
31	Light Stability of Resilient Flooring by Color change	ASTM F1515	< 8.0 Δ E	0.29-0.46 Δ E	Best
32	Static Coefficient of Friction	ASTM C1028	\geq 0.60 for dry surfaces \geq 0.53 for wet surfaces	Dry 0.69 Wet 0.56 with 50lbs load	Good